Harsh Kumar

8545877642|harshkumar@gmail.com|linkedin.com/in/harshkumar|github.com/harshkumar

Education

Graphic Era Deemed to be UniversityDehradun,Uttarakhand Bachelor of Technology in Computer Science and Engineering (GPA: 8.73 / 10.00)Sep 2021-Present Kendriya VidyalayaShahjahanpur, Uttarpradesh C.B.S.E (12th) (89.4 %)April 2020 – March 2021 Kendriya VidyalayaShahjahanpur, Uttarpradesh C.B.S.E (10th) (87.4 %)April 2018 – March 2019

Projects

Multiplayer Chess Game|Node.js, Express.js, Socket.IO, JS, Tailwind CSSJune 2024 - July 2024
• Developed a real-time multiplayer chess game with 100% seamless gameplay using Node.js, Express.js, and Socket.IO to enable efficient server-client communication.
• Designed a responsive interface with Tailwind CSS and JavaScript for a seamless user experience.
• Optimized game performance for real-time synchronization and low-latency gameplay. Live Link: Play Chess OnlineGitHub: Code

Virtual Mouse|OpenCV, MediaPipe, PyAutoGUI, PythonMay 2024 - June 2024
• Implemented a sophisticated hand gesture-based cursor control system using OpenCV, MediaPipe, PyAutoGUI, and pynput, achieving precise movement and control.
• Enabled precise cursor control with single-click and double-click through gesture recognition.
• Integrated a screenshot capture feature, expanding the system's capabilities. GitHub: Code

Algorithm Visualizer|React.js, JavaScriptJuly 2024 - Aug 2024
• Created an interactive algorithm visualizer in React.js for key graph algorithms: Dijkstra's, BFS, DFS, Bellman-Ford, and Kruskal's.
• Integrated dynamic visualizations to represent algorithm execution, enhancing understanding of graph traversal.
• Improved user experience with smooth animations and intuitive controls. Live Link: VisualizerGitHub: Code

Speech Translator|React.js, JS, APIs for speech-to-text and translationDec 2023 - Jan 2024
• implemented a React-based web application for high-accuracy speech-to-text conversion with integrated multi-language translation using modern APIs.
• Integrated multi-language translation features to convert text into various languages.
• Optimized real-time translation for seamless user experience and global accessibility. Live Link: Speech TranslatorGitHub: Code

Technical Skills

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, PHP Frameworks: React, Node.js Developer Tools: Git, Github, Google Cloud Platform, VS Code, Visual Studio, Eclipse Libraries: pandas, NumPy, Opencv, mediapipe Soft skills and Areas of Interest: Problem Solving, Interpersonal Skills. Database: MySQL.

Scholastic Achievements

Solved: 800+ problems combinely on Leetcode and GFG. Leetcode: Link GFG: Link

Relevant Coursework

Computer Science: Data structures and Algorithms, Object Oriented Programming, Database Management System, Operating System, Computer Networks.